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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,235	11/12/2003	Claude Basso	RPS920030062US1	6405
45211	7590	05/17/2007		
Robert A. Voigt, Jr. WINSTEAD SECHREST & MINICK PC PO BOX 50784 DALLAS, TX 75201			EXAMINER ZHU, BO HUI ALVIN	
			ART UNIT	PAPER NUMBER
			2616	
			MAIL DATE	DELIVERY MODE
			05/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/706,235

Applicant(s)

BASSO ET AL.

Examiner

Bo Hui A. Zhu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11/12/2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1 – 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (page 1, line 14 – page 4, line 22) in view of Bezzant et al. (US 6,014,717).

(1) with regard to claims 1, 6 and 11:

The admitted prior art discloses a system, comprising: a communications adapter receives a packet of data from an outside network (page 2, line 9); a memory unit coupled to the communications adapter, wherein the memory unit stores a table listing a plurality of transport control blocks (page 2, lines 1 – 3); a TCP protocol stack running on the communications adapter (page 2, lines 7 – 8); a TCP application running on the communications adapter (page 3, line 21); wherein the TCP protocol stack is configured to perform the following programming steps: storing a payload of the packet of data in a buffer in the memory unit (page 3, lines 12 – 14); reading a header of the packet of data to extract a value and indexing in the table using the value (page 2, lines 11 – 14); performing a lock operation on a transport control block in an indexed entry in the table and performing a read operation on the transport control block (page 2, lines 24 – 25);

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transmitting a notification to the TCP application to read the payload , wherein the notification comprises an address of the transport control block (page 3, lines 20 – 23).

The admitted prior art, however, fails to teach that transmitting the payload of the received packet of data to the TCP application whereby the TCP application does not perform a lock, read, write or unlock operation on the transport control block.

Bezzant et al. discloses a concept that allows data to be directly transferred from the system memory to the peripheral device that requests the data without the peripheral device having to utilize the control of the processor of the system. This method would be desirable because it would improve speed and reduce latency of the data transfer since the operations involved the system processor is bypassed.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to apply the concept disclosed by Bezzant et al. in the system of the admitted prior art so as to improve speed and reduce latency in transferring data.

(2) with regard to claims 2, 7 and 12:

The admitted prior art further discloses that receiving an invocation of a function call from the TCP application upon the TCP application receiving the notification to read the payload (page 3, lines 24 – 25).

(3) with regard to claims 3, 8 and 13:

The admitted prior art further discloses that performing a write operation on the transport control block (page 3, lines 8 – 13); performing an unlock operation on the transport control block (page 3, lines 15 – 16); and transmitting an acknowledgment to a transmitting network device (page 3, line 18 – 20).

(4) with regard to claims 4, 9 and 14:

The admitted prior art further discloses that transmitting an indication of a change in a size of the buffer to the transmitting network device (page 4, lines 9 – 14).

(5) with regard to claims 5, 10 and 15:

The admitted prior art further discloses that a processor coupled to communications adapter and transmitting the received payload to the processor to be processed (page 4, lines 15 – 16).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bo Hui A. Zhu whose telephone number is (571)270-1086. The examiner can normally be reached on Mon-Thur 10am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571)272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BZ
May 9, 2007



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